Approved For Release 2001/03/04 GIA-RDP33-02415A000500390053-5

GUS-0274 Cy_/of 4 26 May 1959

Est 3 - 4 hrs ?

MEMORANDUM FOR THE RECORD:

SUBJECT: Comparison Study of Proposed Follow-on Vehicle

- 1. This report represents an initial comparison study of the two proposed follow-on vehicles; Convair's Super Hustler and Lockheed's A-11.
 - 2. The evaluation is based on the following references:
 - (a) Memo for Record, Subject: "Follow-on Operational Considerations," dated 25 May 1959.
 - (b) Memo for Record, Subject: "Follow-on Evaluation Criteria," dated 25 May 1959.
 - 3. Operational Comparison
 - (a) Performance

8 Turn Around Time

			Super Hustler	<u>A-11</u>
	1	Speed	Mach 4.0	Mach 3.2
	2	Range		
		(a) W/O Refueling	4150 NM ?	25X1D
		(b) With Refueling	B-58 6,000 NM - pre-strike Super 4,000, ‡ ? ? post-strike	25X1D
25X1D	3	Altitude PROFILE	90,000 2100,000	87,000 ft &
	4	Employment	Requires staging or deployment base Low RADAR PEFLECTIVITY	Requires no overseas bases. Can T.O. and land from one Z.I. base (Security - Log-istic - Political and Cover factors.) HIGH RADAR REFERENCE:
	5	Radar Immunity	Considered	Not considered
25X1D	6	-	Considered HIGHER	Considered Lower
25X1D	i	e Commissioner som statemen de sommerwere som verstallete. Her i verse her ble statemen		

Estimated 8 - 12 hrs ?

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		Super Hustler	<u>A-11</u>			
9	System Availability	Contractor estimate 24 Mo.	18 - 24 Mo.			
10	Navigation System	Inertial Guidance System	Inertial Guidance System			
11	Fatigue Factor	Capsule Concept - comfortable cockpit environment	Pressure suit - and high temperatures			
12	Escape System	Capsule - feasible and desirable	Minimum acceptable by USAF standards			
13	Payload Capability	500 lbs - five alternate locations ADDED WT + CUBAGE MORE DIFFICULT THAN	500 lbs. U-2 size Bay 5 ft diam. 72 in. long 48 in. hatches			
14	Logistics		÷			
	It is difficult to compare the two vehicles since very little is known about the special ground handling equipment, fuels, retrieve procedures, etc. The following is a rough estimate of requirements.					
	(a) <u>Maintenance</u>	Equivalent to operating 4 U-2s per single mission	Equivalent to operating 2 U-2s for single mission			
	(b) Ground Handling	Unknown	Unknown			
	(c) Time Estimates					
	(1) Sortie Rate	one/day	one/day			
	(2) Turn Around	8 - 12 hrs depending on retrieve	6 - 8 hrs.			
	(3) <u>In commission</u>	rate 50% of A-11	Unknown			
	(4) <u>Logistics</u>	Double Qty	Single Qty			
	(<u>1</u>)	Ground Equip				
	(<u>2</u>)	Personnel Equip				
	(<u>3</u>)	Hangar space				
	(4)	Cargo space				
	(<u>5</u>)	Staging operations	•			

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(5) Engines

3 types

1 type

3 contractors

1 contractor

7 total

2 total

25X1A9a

Colonel

USAF

Chief, Operations Branch, DPD

DPD/DD-P:AES/am